

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) <b>Kewaunee Nuclear Power Plant</b>	DOCKET NUMBER (2) <b>0 5 0 0 0</b>	PAGE (3) <b>1 OF 0 12</b>
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TITLE (4)  
**Degraded Ventilation Systems**

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)		
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		
									N/A		
0	9	28	8	4	8	4	0	18	0 5 0 0 0		
									0 5 0 0 0		

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)

OPERATING MODE (9) <b>N</b>	20.402(b)	20.406(c)	80.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10) <b>1 0 0</b>	20.406(a)(1)(ii)	80.36(a)(1)	80.73(a)(2)(v)	73.71(c)
	20.406(a)(1)(iii)	80.36(a)(2)	80.73(a)(2)(vii)	<input checked="" type="checkbox"/> OTHER (Specify in Abstract Below and in Text, NRC Form 366A)
	20.406(a)(1)(iii)	80.73(a)(2)(i)	80.73(a)(2)(viii)(A)	
	20.406(a)(1)(iv)	80.73(a)(2)(ii)	80.73(a)(2)(viii)(B)	
	20.406(a)(1)(iv)	80.73(a)(2)(iii)	80.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME <b>John Thorgersen - Nuclear Engineer</b>	TELEPHONE NUMBER
	AREA CODE: <b>4 1 4</b> NUMBER: <b>4 3 3 - 1 3 0 3</b>

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC
E	FIV	FIC	UI	T121615	NO				

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE)     NO

EXPECTED SUBMISSION DATE (15)    **NA**    MONTH:    DAY:    YEAR:

ABSTRACT (Limit to 1400 spaces, i.e. approximately fifteen single space typewritten lines) (16)

During the 1984 refueling outage, several fan coil units providing local ambient air cooling for ESF equipment were discovered to have less than design air flow. Subsequent studies showed that the as found air flows did provide adequate ventilation to provide normal and post-accident cooling for the equipment in the affected areas under current conditions. These same studies also revealed that the fan coil units were undersized. Finally, continuing investigations revealed on September 28, 1984, that the service water side of the fan coils had become partially plugged with silt.

The air and water sides of the fan coil units were cleaned to provide maximum cooling from the units in their current condition. Evaluations have shown that calculated post-accident temperatures are tolerable under current conditions. The FCU's are being evaluated for an upgrade in capacity. While this event is not explicitly reportable under the requirements of 10CFR 50.73, it is being reported under OTHER as an item of generic interest for your information.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)  Kewaunee Nuclear Power Plant	DOCKET NUMBER (2)  0 5 0 0 0 3 0 5	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		8 4	0 1 8	0 0	0 2	OF 0 2

TEXT (If more space is required, use additional NRC Form 366A's) (17)

During the 1984 refueling outage, several of the Fan Coil Units (FCU's) serving ESF equipment were found to have airflows less than nominal design. The air sides of the units were cleaned, and although design airflows were not achieved, some improvements in air flow were obtained. It is suspected that the reduced airflow is caused by increased fin fouling which results in an excessive differential pressure across the cooling coils.

Evaluations were then performed to determine if the fan coils had sufficient cooling capability to ensure proper operation of ESF equipment. These evaluations concluded that under current conditions, while ambient temperatures were predicted to be higher than design, they would be limited to a value which would not be expected to cause short-term failure of ESF equipment. During the course of these evaluations, it was discovered that some of the fan coil units were not sized large enough to remove the postulated post-accident heat loads from the areas they served and still maintain design temperatures. (This was taken into account in the aforementioned evaluations).

Finally, on September 28, 1984, it was discovered that the service water side of the fan coil units had become partially blocked with silt, further degrading their cooling capability. The fan coil units were immediately cleaned, and proper operation was verified by temperature measurements on the air inlet and discharge sides of the coils.

The fan coil units will be included in the KNPP preventive maintenance program to ensure periodic cleaning. An evaluation is in progress to increase the cooling capability of the fan coils or provide additional cooling to a level sufficient to maintain normal environmental temperatures under postulated post-accident conditions.

Although not explicitly reportable under the requirements of 10 CFR 50.73, this event is being reported under OTHER as an item of generic interest for your information.

## WISCONSIN PUBLIC SERVICE CORPORATION

P.O. Box 1200, Green Bay, WI 54305



November 19, 1984

U. S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555

Gentlemen:

Docket 50-305  
Operating License DPR-43  
Kewaunee Nuclear Power Plant  
Reportable Occurrence 84-018-00

In accordance with the requirements of 10 CFR 50.73 "Licensee Event Report System", the attached Licensee Event Report for reportable occurrence 84-018-00 is being submitted.

Very truly yours,

A handwritten signature in dark ink, appearing to read "D. C. Hintz".

D. C. Hintz  
Manager - Nuclear Power

JGT/js

Attach.

cc - INPO Records Center  
Suite 1500, 1100 Circle 75 Parkway  
Atlanta, GA 30339  
Mr. Robert Nelson, NRC Resident Inspector  
RR #1, Box 999, Kewaunee, WI 54216  
Mr. S. A. Varga, Chief  
US NRC, Washington, DC 20555  
Mr. J. G. Keppler, Regional Administrator  
Region III, US NRC, 799 Roosevelt Road  
Glen Ellyn, IL 60137

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